Intersection Delay Study - Field Sheet

Request No.: | **Path:** L:\TRAFFIC\302385\11\
Job No.: 302-385.00

Location: DE 52 @ Center Meeting Road | **Weather:** warm and clear
Date: 5/17/2005 | **Recorder:** nan
Direction: WB | **Start Time:** 16:45 (Military)

Location Characteristics:

Number Of Lanes :	1	Turning Lanes	0
Number Of Pedestrians:	0	Parking	No
Traffic Control Devices :	SS	Transit Stop (Y/N)	No
Type of Delay (Fixed/ Operational):			

Time Interval (hh:mm): 0:01

No.	Begin	End	Total Number of Vehicles Stopped In Approach At Time: 0 SEC+	15 SEC +	30 SEC+	45 SEC+	Approach Volume: Number Stopped	Number not Stopped
1	16:45	16:46	0	0	0	0	0	4
2	16:46	16:47	3	2	1	1	7	0
3	16:47	16:48	0	1	0	0	1	1
4	16:48	16:49	1	2	3	6	10	0
5	16:49	16:50	8	8	6	9	6	0
6	16:50	16:51	10	13	10	5	6	0
7	16:51	16:52	2	4	4	6	8	1
8	16:52	16:53	3	1	3	2	3	0
9	16:53	16:54	2	3	4	3	5	0
10	16:54	16:55	2	1	2	0	4	0
11	16:55	16:56	0	5	5	4	6	0
12	16:56	16:57	4	2	1	0	1	0
13	16:57	16:58	3	2	3	3	8	0
14	16:58	16:59	4	8	4	2	9	0
15	16:59	17:00	1	0	3	2	4	2
SUBTOTAL			43	52	49	43	78	8
TOTAL			187				86	

Total Delay = Total Number Stopped X Sampling Interval

= 187 X 15 = 2805 Veh-Sec/ 3600 = 0.78 Veh - Hr

Average Delay Per Stopped Vehicle = Total Delay / Number of Stopped Vehicles

= 2805 / 78 = 36.0 Sec

Average Delay Per Approach Vehicle = Total Delay / Approach Volume

= 2805 / 86 = 32.6 Sec

Percent of Vehicles Stopped = Number of Stopped Vehicles / Approach Volume

= 78 / 86 = 0.9

Intersection Delay Study - Field Sheet

Request No.: 0 **Path:** L:\TRAFFIC\302385\11\
Job No.: 302-385.00

Location: DE 52 @ Center Meeting Road **Weather:** warm and clear
Date: 5/17/2005 **Recorder:** nz
Direction: WB **Start Time:** 4:45:00 PM
(Military)

Location Characteristics:

Number Of Lanes :	1	Turning Lanes	0
Number Of Pedestrians:	0	Parking	No
Traffic Control Devices :	SS	Transit Stop (Y/N)	No
Type of Delay (Fixed/ Operational):			

Time Interval (hh:mm): 0:01

No.	Begin	End	Total Number of Vehicles Stopped In Approach At Time: 0 SEC+	15 SEC +	30 SEC+	45 SEC+	Approach Volume: Number Stopped	Number not Stopped
1	17:00	17:01	1	1	3	3	6	0
2	17:01	17:02	0	3	2	3	5	0
3	17:02	17:03	4	2	3	1	6	2
4	17:03	17:04	0	2	3	5	7	0
5	17:04	17:05	6	4	5	1	5	0
6	17:05	17:06	0	2	2	4	4	0
7	17:06	17:07	0	0	1	2	3	0
8	17:07	17:08	3	8	9	7	9	0
9	17:08	17:09	5	6	7	5	6	0
10	17:09	17:10	5	3	4	2	6	0
11	17:10	17:11	1	3	2	5	8	0
12	17:11	17:12	5	2	5	9	10	0
13	17:12	17:13	10	10	9	10	8	0
14	17:13	17:14	12	12	12	18	12	0
15	17:14	17:15	18	16	16	18	5	0
SUBTOTAL			70	74	83	93	100	2
TOTAL			320				102	

Total Delay = Total Number Stopped X Sampling Interval
= 320 X 15 = 4800 Veh-Sec/ 3600 = 1.33 Veh - Hr

Average Delay Per Stopped Vehicle = Total Delay / Number of Stopped Vehicles
= 4800 / 100 = 48.0 Sec

Average Delay Per Approach Vehicle = Total Delay / Approach Volume
= 4800 / 102 = 47.1 Sec

Percent of Vehicles Stopped = Number of Stopped Vehicles / Approach Volume
= 100 / 102 = 1.0

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Location: DE 52 @ Center Meeting Road **Weather:** warm and clear
Date: 5/17/2005 **Recorder:** nan
Direction: WB **Start Time:** 4:45:00 PM
(Military)

Location Characteristics:

Number Of Lanes :	1	Turning Lanes	0
Number Of Pedestrians:	0	Parking	No
Traffic Control Devices :	SS	Transit Stop (Y/N)	No
Type of Delay (Fixed/ Operational):			

Time Interval (hh:mm): 0:01

No.	Begin	End	Total Number of Vehicles Stopped In Approach At Time: 0 SEC+	15 SEC +	30 SEC+	45 SEC+	Approach Volume: Number Stopped	Number not Stopped
1	17:15	17:16	0	0	0	0	0	0
2	17:16	17:17	0	0	0	0	0	0
3	17:17	17:18	15	12	0	0	15	0
4	17:18	17:19	0	0	0	0	1	0
5	17:19	17:20	16	0	0	0	16	0
6	17:20	17:21	16	17	14	12	2	0
7	17:21	17:22	12	11	12	10	1	0
8	17:22	17:23	9	7	3	5	5	0
9	17:23	17:24	10	8	8	3	6	0
10	17:24	17:25	9	9	7	7	8	0
11	17:25	17:26	6	4	7	2	5	0
12	17:26	17:27	0	2	0	0	1	0
13	17:27	17:28	1	1	2	2	2	0
14	17:28	17:29	2	2	1	8	8	0
15	17:29	17:30	7	8	7	8	6	0
SUBTOTAL			103	81	61	57	76	0
TOTAL			302				76	

Total Delay = Total Number Stopped X Sampling Interval

= 302 X 15 = 4530 Veh-Sec/ 3600 = 1.26 Veh - Hr

Average Delay Per Stopped Vehicle = Total Delay / Number of Stopped Vehicles

= 4530 / 76 = 59.6 Sec

Average Delay Per Approach Vehicle = Total Delay / Approach Volume

= 4530 / 76 = 59.6 Sec

Percent of Vehicles Stopped = Number of Stopped Vehicles / Approach Volume

= 76 / 76 = 1.0

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Date: 5/17/2005 **Recorder:** nan
Direction: WB **Start Time:** 16:45
(Military)

Location Characteristics:

Number Of Lanes :	1	Turning Lanes	0
Number Of Pedestrians:	0	Parking	No
Traffic Control Devices :	SS	Transit Stop (Y/N)	No
Type of Delay (Fixed/ Operational):			

Time Interval (hh:mm): 0:01

No.	Begin	End	Total Number of Vehicles Stopped In Approach At Time: 0 SEC+	15 SEC +	30 SEC+	45 SEC+	Approach Volume: Number Stopped	Number not Stopped
1	17:30	17:31	9	8	7	4	5	0
2	17:31	17:32	6	7	12	12	2	0
3	17:32	17:33	15	14	14	14	3	0
4	17:33	17:34	15	16	15	15	4	0
5	17:34	17:35	15	16	18	19	1	0
6	17:35	17:36	18	16	17	18	1	2
7	17:36	17:37	20	16	22	22	2	2
8	17:37	17:38	24	21	24	24	3	1
9	17:38	17:39	23	24	22	22	0	0
10	17:39	17:40	22	22	23	21	4	4
11	17:40	17:41	20	22	18	18	4	1
12	17:41	17:42	19	20	19	20	5	0
13	17:42	17:43	20	20	19	19	1	0
14	17:43	17:44	20	19	18	19	0	0
15	17:44	17:45	18	17	16	13	6	1
SUBTOTAL			264	258	264	260	41	11
TOTAL			1046				52	

Total Delay = Total Number Stopped X Sampling Interval

= 1046 X 15 = 15690 Veh-Sec/ 3600 = 4.36 Veh - Hr

Average Delay Per Stopped Vehicle = Total Delay / Number of Stopped Vehicles

= 15690 / 41 = 382.7 Sec

Average Delay Per Approach Vehicle = Total Delay / Approach Volume

= 15690 / 52 = 301.7 Sec

Percent of Vehicles Stopped = Number of Stopped Vehicles / Approach Volume

= 41 / 52 = 0.8

Total Hour

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Location: DE 52 @ Center Meeting Road
Date: 5/17/2005
Direction: WB
Weather: warm and clear
Recorder: nan
Start Time: 16:45
(Military)

Location Characteristics:

Number Of Lanes : 1
Number Of Pedestrians: 0
Traffic Control Devices : SS
Type of Delay (Fixed/ Operational): 0
Time Interval (hh:mm): 0:15

Turning Lanes 0
Parking No
Transit Stop (Y/N) No

No	Begin	End	Total Number of Vehicles Stopped In Approach At Time: 0 SEC+	15 SEC +	30 SEC+	45 SEC+	Approach Volume: Number Stopped	Number not Stopped
1	16:45	17:00	43	52	49	43	78	8
2	17:00	17:15	70	74	83	93	100	2
3	17:15	17:30	103	81	61	57	76	0
4	17:30	17:45	264	258	264	260	41	11
5	17:45	18:00						
6	18:00	18:15						
7	18:15	18:30						
8	18:30	18:45						
9	18:45	19:00						
10	19:00	19:15						
11	19:15	19:30						
12	19:30	19:45						
13	19:45	20:00						
14	20:00	20:15						
15	20:15	20:30						
SUBTOTAL			480	465	457	453	295	21
TOTAL			1855				316	

Total Delay = Total Number Stopped X Sampling Interval
= 1855 X 15 = 27825 Veh-Sec/ 3600 = 7.73 Veh - Hr

Average Delay Per Stopped Vehicle = Total Delay / Number of Stopped Vehicles
= 27825 / 295 = 94.3 Sec

Average Delay Per Approach Vehicle = Total Delay / Approach Volume
= 27825 / 316 = 88.1 Sec

Percent of Vehicles Stopped = Number of Stopped Vehicles / Approach Volume
= 295 / 316 = 0.9

Total Hour

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